

SEQUENCE LISTING

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<120> METHODS AND COMPOSITIONS FOR DETERMINING ENZYMATIC ACTIVITY

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<151> 1999-07-27

<160> 7

<170> PatentIn version 2.1

<210> 1

<211> 389

<212> PRT

<213> Medicago sativa

<220>

<221> VARIANT

<222> (164)

<223> Cys or Ala

<220>

<221> VARIANT

<222> (303)

<223> His or Gln

<220>

<221> VARIANT

<222> (336)

<223> Asn or Ala

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Met Val Ser Val Ser Glu Ile Arg Lys Ala Gln Arg Ala Glu Gly Pro
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Ala Thr Ile Leu Ala Ile Gly Thr Ala Asn Pro Ala Asn Cys Val Glu
 20 25 30

Gln Ser Thr Tyr Pro Asp Phe Tyr Phe Lys Ile Thr Asn Ser Glu His
 35 40 45

Lys Thr Glu Leu Lys Glu Lys Phe Gln Arg Met Cys Asp Lys Ser Met
 50 55 60

Ile Lys Arg Arg Tyr Met Tyr Leu Thr Glu Glu Ile Leu Lys Glu Asn
 65 70 75 80

Pro Asn Val Cys Glu Tyr Met Ala Pro Ser Leu Asp Ala Arg Gln Asp
 85 90 95
 Met Val Val Val Glu Val Pro Arg Leu Gly Lys Glu Ala Ala Val Lys
 100 105 110
 Ala Ile Lys Glu Trp Gly Gln Pro Lys Ser Lys Ile Thr His Leu Ile
 115 120 125
 Val Cys Thr Thr Ser Gly Val Asp Met Pro Gly Ala Asp Tyr Gln Leu
 130 135 140
 Thr Lys Leu Leu Gly Leu Arg Pro Tyr Val Lys Arg Tyr Met Met Tyr
 145 150 155 160
 Gln Gln Gly Xaa Phe Ala Gly Gly Thr Val Leu Arg Leu Ala Lys Asp
 165 170 175
 Leu Ala Glu Asn Asn Lys Gly Ala Arg Val Leu Val Val Cys Ser Glu
 180 185 190
 Val Thr Ala Val Thr Phe Arg Gly Pro Ser Asp Thr His Leu Asp Ser
 195 200 205
 Leu Val Gly Gln Ala Leu Phe Gly Asp Gly Ala Ala Ala Leu Ile Val
 210 215 220
 Gly Ser Asp Pro Val Pro Glu Ile Glu Lys Pro Ile Phe Glu Met Val
 225 230 235 240
 Trp Thr Ala Gln Thr Ile Ala Pro Asp Ser Glu Gly Ala Ile Asp Gly
 245 250 255
 His Leu Arg Glu Ala Gly Leu Thr Phe His Leu Leu Lys Asp Val Pro
 260 265 270
 Gly Ile Val Ser Lys Asn Ile Thr Lys Ala Leu Val Glu Ala Phe Glu
 275 280 285
 Pro Leu Gly Ile Ser Asp Tyr Asn Ser Ile Phe Trp Ile Ala His Pro
 290 295 300
 Gly Gly Pro Ala Ile Leu Asp Gln Val Glu Gln Lys Leu Ala Leu Lys
 305 310 315 320
 Pro Glu Lys Met Asn Ala Thr Arg Glu Val Leu Ser Glu Tyr Gly Asn
 325 330 335
 Met Ser Ser Ala Cys Val Leu Phe Ile Leu Asp Glu Met Arg Lys Lys
 340 345 350
 Ser Thr Gln Asn Gly Leu Lys Thr Thr Gly Glu Gly Leu Glu Trp Gly
 355 360 365
 Val Leu Phe Gly Phe Gly Pro Gly Leu Thr Ile Glu Thr Val Val Leu
 370 375 380

Arg Ser Val Ala Ile
385

<210> 2
<211> 24
<212> PRT
<213> Medicago sativa

<400> 2
Ser Glu Gly Ala Ile Asp Gly His Leu Arg Glu Ala Gly Leu Thr Phe
1 5 10 15

His Leu Leu Lys Asp Val Pro Gly
20

<210> 3
<211> 24
<212> PRT
<213> Hordeum vulgare

<400> 3
Ser Glu Gly Ala Ile Asp Gly His Leu Thr Glu Ala Gly Leu Thr Ile
1 5 10 15

His Leu Leu Lys Asp Val Pro Gly
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<210> 4
<211> 24
<212> PRT
<213> Ruta graveolens

<400> 4
Ser Asp Gly Ala Ile Glu Gly His Ile Arg Glu Glu Gly Leu Thr Val
1 5 10 15

His Leu Lys Lys Asp Val Pro Ala
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<210> 5
<211> 24
<212> PRT
<213> Arachis hypogaea

<400> 5
Ser His Gly Ala Ile Gly Gly Leu Leu Arg Glu Val Gly Leu Thr Phe
1 5 10 15

Tyr Leu Asn Lys Ser Val Pro Asp
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<210> 6
<211> 24

<212> PRT

<213> Pinus strobus

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Ser Asp Gly Ala Ile Ser Gly Lys Leu Arg Glu Val Gly Leu Thr Phe
1 5 10 15

Gln Leu Lys Gly Ala Val Pro Asp
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<210> 7

<211> 24

<212> PRT

<213> Phalaenopsis sp.

<400> 7

Ser Ala Gly Ala Ile Gly Gly His Val Ser Glu Gly Gly Leu Leu Ala
1 5 10 15

Thr Leu His Arg Asp Val Pro Gln
20